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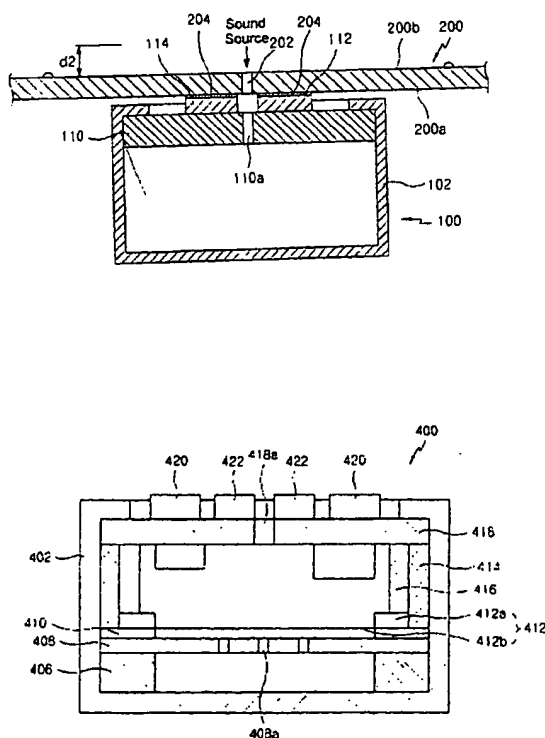
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- (21) International Application Number: PCT/KR2004/002526 (72) Inventor; and (75) Inventor/Applicant (for US only): SONG, Cheong-Dam [KR/KR]; 236-6, Gayang 1-dong, Gangseo-gu, Seoul 157-801 (KR).
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- (71) Applicant (for all designated States except US): BSE CO., LTD [KR/KR]; 4L, 58B, 626-3, Gojan-dong, Nam-dong-gu, Incheon-si 405-817 (KR).
- (72) Inventors: LIM, Jun; 16-1, 138, Songwall-dong, Jongro-gu, Seoul 110-101 (KR). PARK, Sung-Ho;
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(54) Title: A CONDENSER MICROPHONE MOUNTABLE ON MAIN PCB



(57) Abstract: A condenser microphone mountable on a main PCB is disclosed. The condenser microphone of the present invention comprises a cylinder-shaped case having one side which is opened and the other side which is closed; a first metal ring inserted into the case for an electrical connection; a disk-shaped back plate having a sound hole to be connected electrically to the case through the first metal ring; a ring-shaped spacer; a cylinder-shaped insulating ring having an open top part and an open bottom part to provide an electrical insulation and a mechanical support; a diaphragm inserted into the insulating ring and facing to the back plate while interposing the spacer between the diaphragm and the back plate; a second metal ring for being connected electrically to the diaphragm and supporting mechanically the diaphragm; and a PCB that is mounted with electronic components and is formed with a sound hole, the PCB being connected to the back plate through the second metal ring and the case, the PCB including connection terminals connected to the outside. Accordingly, the condenser microphone maintains the sound quality in a good state since the sound wave transfer path is short even if the component mount region of the main PCB on which the condenser microphone is mounted is directed toward an inner side of the electronic product at need.



MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
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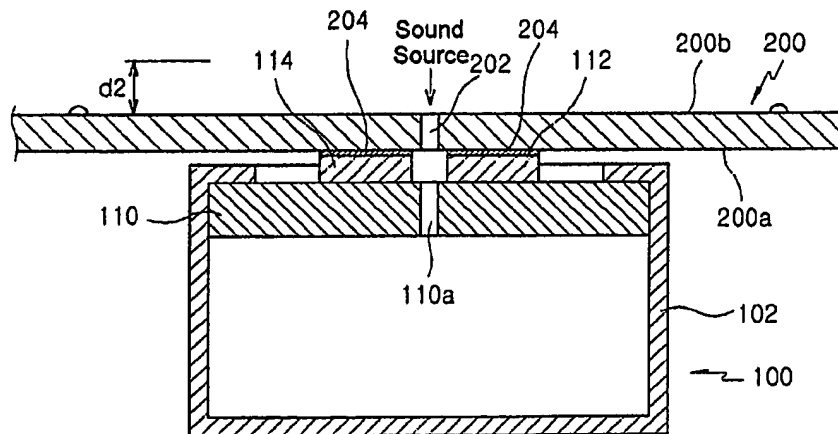
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